

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the subject application, and please amend the claims as follows:

1. (Currently amended) A cell culture system comprising a pentameric peptide which enhances cell growth and/or secretion ~~in a cell culture system~~, wherein said peptide comprises a pentameric structure of at least one of (a) xxxkx, (b) xxkxx, (c) xxxxxk, (d) xkxxx, and (e) kxxxx, wherein k represents lysine and each x may be the same or different amino acid independently selected from the group consisting of lysine, alanine, isoleucine, phenylalanine, proline, valine, glycine, glutamine, leucine, methionine, asparagine, serine, threonine, tyrosine, aspartic acid, glutamic acid, histidine and derivatives thereof, and wherein said peptide is free or noncovalently immobilized to a cell culture surface.
2. (Currently amended) The peptide system of claim 1, wherein the peptide promotes adherence of anchorage-dependent cells on a the surface.
3. (Withdrawn) The peptide of claim 1, wherein the peptide enhances cell growth and is selected from the group consisting of IFFKG (SEQ ID NO:1), FIKFG(SEQ ID NO:2), FIFAK(SEQ ID NO:3), QVVAK(SEQ ID NO:4), FKFIG(SEQ ID NO:5), AFFKI(SEQ ID NO:6), VFPFK(SEQ ID NO:7), AKIFF(SEQ ID NO:8), AFKIF(SEQ ID NO:9), KFAFI (SEQ ID NO:10)and FAKFI(SEQ ID NO:11) and combinations thereof.
4. (Currently amended) The peptide system of claim 1, wherein the peptide enhances cell secretion and is selected from the group consisting of FKL VY(SEQ ID NO:16), KKKKK(SEQ ID NO:17), KKKKL(SEQ ID NO:18), FK K KQ(SEQ ID NO:19), FKFIG(SEQ ID NO:5), KKKSK(SEQ ID NO:20), KKKLK(SEQ ID NO:21), FK K K K(SEQ ID NO:22), LKKKK(SEQ ID NO:23), KKLKK (SEQ ID NO:24), KKKKT(SEQ ID NO:25), KKP K K(SEQ ID NO:26), KKPQY(SEQ ID NO:27), SKKKK(SEQ ID NO:28), KVKKK(SEQ ID NO:29), KNQTY(SEQ

ID NO:30), FKKKV(SEQ ID NO:31), KPKKK(SEQ ID NO:32), FFKKK(SEQ ID NO:33), HKNQT(SEQ ID NO:34), FKLVG(SEQ ID NO:35), KKQPK(SEQ ID NO:36), EKKQT(SEQ ID NO:37), EKKKK(SEQ ID NO:38), KKIQQ(SEQ ID NO:39), KKKKS(SEQ ID NO:40), KKQKK(SEQ ID NO:41), KKLNY(SEQ ID NO:42), DGKKT(SEQ ID NO:43), KKPTT(SEQ ID NO:44), KFIFG(SEQ ID NO:45), FKKMY(SEQ ID NO:46), FFFKK(SEQ ID NO:47), KQKKI(SEQ ID NO:48), HIKKK(SEQ ID NO:49), DFFHK(SEQ ID NO:50), AKKKK(SEQ ID NO:51), AHIKK(SEQ ID NO:52), AHKKK(SEQ ID NO:53), LKLVEY(SEQ ID NO:54), PKQKK(SEQ ID NO:55), AKKKT(SEQ ID NO:56).

5. (Currently amended) The ~~peptide~~ system of claim 1, wherein said peptide is introduced into a the cell culture system at a concentration of about 500 μ M to about 6mM.
6. (Currently amended) The ~~peptide~~ system of claim 1, wherein said peptide is introduced into a the cell culture system at a concentration of about 250 μ M to about 24mM.
7. (Currently amended) The ~~peptide~~ system of claim 1, wherein said peptide is introduced into a the cell culture system at a concentration ranging from 3mM to about 12 mM.
8. (Currently amended) The ~~peptide~~ system of claim 1, wherein said peptide is present on a the surface in the form of a dried film.
9. (Currently amended) The ~~peptide~~ system of claim 8, wherein said surface is two dimensional or three dimensional.
10. (Currently amended) The ~~peptide~~ system of claim 1 wherein the cell culture system comprises cells selected from the group consisting of epithelial, endothelial, dermal, neural, tumor, lymphocytic, stem cells, and combinations thereof.

11. (Currently amended) The ~~peptide~~ system of claim 4 10 wherein said peptide increases oxygen consumption of said cells.
12. (Currently amended) The ~~peptide~~ system of claim 4 10 wherein said peptide enhances growth of said cells *in vitro* or *in vivo*.
13. (Currently amended) The ~~peptide~~ system of claim 1, wherein the peptide is non-covalently attached or non-specifically adsorbed to a the surface.
14. (Currently amended) The ~~peptide~~ system of claim 13 wherein said surface is coated with at least one of bovine serum albumin, ovalbumin, keyhole limpet haemocyanin, collagen, fibronectin, laminin, polylysine, a peptide having a cell-surface receptor recognition sequence, an immunoglobulin, a polysaccharide, or a growth factor.
15. (Currently amended) The ~~peptide~~ system of claim 13 wherein said surface is selected from the group consisting of plastic dishes, plastic flasks, plastic microtitre plates, plastic tubes, sutures, membranes, films, bioreactors, hollow fibers, sacs and microparticles.
16. (Currently amended) The ~~peptide~~ system of claim 1, wherein the peptide is covalently linked to a member of the group consisting of extracellular matrix protein, bovine serum albumin, ovalbumin, keyhole limpet haemocyanin, collagen, fibronectin, laminin, an immunoglobulin, a polysaccharide, a growth factor and combinations thereof.
17. (Currently amended) The ~~covalently-linked peptide~~ system of claim 16 wherein said member is adsorbed to a surface.
18. (Currently amended) The ~~covalently-linked peptide~~ system of claim 16 wherein said growth factor comprises at least one of bFGF, GCSF, an ILGF-1, or VEGF.

19. (Currently amended) The peptide system of claim 1, wherein the peptide is a media constituent.
20. (Currently amended) A pentameric peptide which enhances cell growth and/or secretion, the peptide comprising a pentameric structure of at least one of (a) xxxkx, (b) xxkxx, (c) xxxk, (d) xkxxx, and (e) kxxxx, wherein each x may be the same or different hydrophobic or uncharged polar amino acid residue and k represents lysine, and wherein the peptide is free or noncovalently immobilized to a cell culture surface.
21. (Original) The peptide of claim 20, wherein said hydrophobic or uncharged polar residue is selected from the group consisting of Phe, Ile, Ala, Val, Pro, Gly, Gln, Tyr, Thr Leu and derivatives thereof.
22. (Withdrawn) The peptide of claim 20, wherein the peptide enhances cellular adherence and growth of adherent-type cells and is selected from the group consisting of IFFKG (SEQ ID NO:1), FIKFG(SEQ ID NO:2), FIFAK(SEQ ID NO:3), QVVAK(SEQ ID NO:4), FKFIG(SEQ ID NO:5), AFFKI(SEQ ID NO:6), VFPFK(SEQ ID NO:7), AKIFF(SEQ ID NO:8), AFKIF(SEQ ID NO:9), KFAFI (SEQ ID NO:10), FAKFI(SEQ ID NO:11), and combinations thereof.
23. (Withdrawn) The peptide of claim 20, wherein the peptide enhances cell secretion and is selected from the group consisting of FKFIG(SEQ ID NO:5), FKL VY(SEQ ID NO:16), KNQTY(SEQ ID NO:30), FKL VG(SEQ ID NO:35), KFIFG(SEQ ID NO:45), LKL VY(SEQ ID NO:54), and combinations thereof.
24. (Withdrawn) A peptide which promotes cellular adherence and/or growth, wherein said peptide is selected from the group consisting of IFFKG (SEQ ID NO:1), FIKFG(SEQ ID NO:2), FIFAK(SEQ ID NO:3), QVVAK(SEQ ID NO:4), FKFIG(SEQ ID NO:5), AFFKI(SEQ ID

NO:6), VFPPK(SEQ ID NO:7), AKIFF(SEQ ID NO:8), AFKIF(SEQ ID NO:9), KFAFI (SEQ ID NO:10), FAKFI(SEQ ID NO:11), and combinations thereof.

25. (Withdrawn) The peptide of claim 24 attached or non-specifically adsorbed to a surface.

26. (Withdrawn) The peptide of claim 24, wherein the peptide is a media constituent.

27. (Withdrawn) A peptide composition which promotes cellular adherence and/or growth of cells comprising one or more pairs of peptides selected from the group consisting of (a) AFFFQ(SEQ ID NO:12)/EEEMY(SEQ ID NO:13) and (b) FIKLM (SEQ ID NO:14)/FFIPY (SEQ ID NO:15).

28. (Withdrawn) The peptide composition of claim 27 attached or non-specifically adsorbed to a surface.

29. (Withdrawn) The peptide composition of claim 27, wherein said composition is a media constituent.

30. (Currently amended) A peptide which enhances cell secretion selected from the group consisting of FKL VY(SEQ ID NO:16), ~~KKKKK~~(SEQ ID NO:17), KKKKL(SEQ ID NO:18), FK K KQ(SEQ ID NO:19), FKFIG(SEQ ID NO:5), KKSKS(SEQ ID NO:20), KKKLK(SEQ ID NO:21), FK K K K(SEQ ID NO:22), LKKKK(SEQ ID NO:23), KKLKK (SEQ ID NO:24), KKKKT(SEQ ID NO:25), KKPKK(SEQ ID NO:26), KKPQY(SEQ ID NO:27), SKKKK(SEQ ID NO:28), KVKKK(SEQ ID NO:29), KNQTY(SEQ ID NO:30), FK K KV(SEQ ID NO:31), KP K K K(SEQ ID NO:32), FF K K K(SEQ ID NO:33), HK NQT(SEQ ID NO:34), FKL VG(SEQ ID NO:35), KKQPK(SEQ ID NO:36), EKKQT(SEQ ID NO:37), EK K K K(SEQ ID NO:38), KKIKQ(SEQ ID NO:39), KKKKS(SEQ ID NO:40), KKQKK(SEQ ID NO:41), KKLNY(SEQ ID NO:42), DGKKT(SEQ ID NO:43), KKPTT(SEQ ID NO:44), KFIFG(SEQ ID NO:45),

FKKMY(SEQ ID NO:46), FFFKK(SEQ ID NO:47), KQKKI(SEQ ID NO:48), HIKKK(SEQ ID NO:49), DFFHK(SEQ ID NO:50), AKKKK(SEQ ID NO:51), AHIKK(SEQ ID NO:52), AHKKK(SEQ ID NO:53), LKLVY(SEQ ID NO:54), PKQKK(SEQ ID NO:55), AKKKT(SEQ ID NO:56), DEETY(SEQ ID NO:57), HNPPY(SEQ ID NO:58), GGHMS(SEQ ID NO:59), AADEG(SEQ ID NO:60), GGGGS(SEQ ID NO:61), EEGLS(SEQ ID NO:62), HHPST(SEQ ID NO:63), FHHNT(SEQ ID NO:64), ADELN(SEQ ID NO:65), KKKK(SEQ ID NO:66), KKK(SEQ ID NO:67), KK(SEQ ID NO:68), OmOmOm(SEQ ID NO:69), RRR(SEQ ID NO:70), and combinations thereof.

31. (Original) The peptide of claim 30 attached or non-specifically adsorbed to a surface.

32. (Original) The peptide of claim 30, wherein said peptide is a media constituent.

33. (Currently amended) A method of modifying a surface in a cell culture system so as to enhance cell growth and/or secretion in said system, comprising the step of applying noncovalently attaching or nonspecifically adsorbing to said surface a pentameric peptide comprising a pentameric structure selected from the group consisting of (a) xxxkx, (b) xxkxx, (c) xxxxx, (d) xkxxx, (e) kxxxx and combinations thereof, wherein k represents lysine and each x may be the same or different amino acid independently selected from the group consisting of lysine, alanine, isoleucine, phenylalanine, proline, valine, glycine, glutamine, leucine, methionine, asparagine, serine, threonine, tyrosine, aspartic acid, glutamic acid, histidine and derivatives thereof.

34. (Withdrawn) The method of claim 33 wherein said peptide enhances cell growth and is selected from the group consisting of IFFKG (SEQ ID NO:1), FIKFG(SEQ ID NO:2), FIFAK(SEQ ID NO:3), QVVAK(SEQ ID NO:4), FKFIG(SEQ ID NO:5), AFFKI(SEQ ID NO:6), VFPFK(SEQ ID NO:7), AKIFF(SEQ ID NO:8), AFKIF(SEQ ID NO:9), KFAFI (SEQ ID NO:10), FAKFI(SEQ ID NO:11), and combinations thereof.

35. (Original) The method of claim 33, wherein the peptide enhances cell secretion and is selected from the group consisting of FKL VY (SEQ ID NO:16), KKKKK (SEQ ID NO:17), KKKKL (SEQ ID NO:18), FK K K Q (SEQ ID NO:19), FK FIG (SEQ ID NO:5), KKKSK (SEQ ID NO:20), KKKLK (SEQ ID NO:21), FK K K K (SEQ ID NO:22), LKKKK (SEQ ID NO:23), KKLKK (SEQ ID NO:24), KKKKT (SEQ ID NO:25), KKPKK (SEQ ID NO:26), KKPQY (SEQ ID NO:27), SKKKK (SEQ ID NO:28), KVKKK (SEQ ID NO:29), KNQTY (SEQ ID NO:30), FK K K V (SEQ ID NO:31), KP K K K (SEQ ID NO:32), FF K K K (SEQ ID NO:33), HK NQT (SEQ ID NO:34), FK LVG (SEQ ID NO:35), KKQPK (SEQ ID NO:36), EKKQT (SEQ ID NO:37), EKKKK (SEQ ID NO:38), K K I K Q (SEQ ID NO:39), KKKKS (SEQ ID NO:40), KKQKK (SEQ ID NO:41), KKLNY (SEQ ID NO:42), DGKKT (SEQ ID NO:43), KKPTT (SEQ ID NO:44), KFIFG (SEQ ID NO:45), FK K MY (SEQ ID NO:46), FF F K K (SEQ ID NO:47), KQKKI (SEQ ID NO:48), HIKKK (SEQ ID NO:49), DFFHK (SEQ ID NO:50), AKKKK (SEQ ID NO:51), AH I K K (SEQ ID NO:52), AH K K K (SEQ ID NO:53), LKL VY (SEQ ID NO:54), PKQKK (SEQ ID NO:55), AKKKT (SEQ ID NO:56), and combinations thereof.

36. (Currently amended) A method of adhering cells to a surface to promote cellular growth comprising the steps of:

- (i) providing a surface at least partially coated with a pentameric peptide comprising a pentameric structure selected from the group consisting of (a) xxxkx, (b) xxkxx, (c) xxxxk, (d) xkxxx, (e) kxxxx and combinations thereof, wherein each x may be the same or different hydrophobic or uncharged polar amino acid residue and k represents lysine, wherein the peptide is noncovalently attached or nonspecifically adsorbed to the surface; and
- (ii) contacting said at least partially coated surface with said cells for a sufficient time to permit cellular attachment thereto.

37. (Original) The method of claim 36 wherein said hydrophobic or uncharged polar residue is selected from the group consisting of Phe, Ile, Ala, Val, Pro, Gly, Gln and derivatives thereof.

38. (Withdrawn) The method of claim 36 wherein said peptide comprises an amino acid sequence selected from the group consisting of IFFKG (SEQ ID NO:1), FIKFG(SEQ ID NO:2), FIFAK(SEQ ID NO:3), QVVAK(SEQ ID NO:4), FKFIG(SEQ ID NO:5), AFFKI(SEQ ID NO:6), VFPFK(SEQ ID NO:7), AKIFF(SEQ ID NO:8), AFKIF(SEQ ID NO:9), KFAFI (SEQ ID NO:10), FAKFI(SEQ ID NO:11), and combinations thereof.

39. (Withdrawn) A cell culture substrate comprising a peptide selected from the group consisting of IFFKG (SEQ ID NO:1), FIKFG(SEQ ID NO:2), FIFAK(SEQ ID NO:3), QVVAK(SEQ ID NO:4), FKFIG(SEQ ID NO:5), AFFKI(SEQ ID NO:6), VFPFK(SEQ ID NO:7), AKIFF(SEQ ID NO:8), AFKIF(SEQ ID NO:9), KFAFI (SEQ ID NO:10), FAKFI(SEQ ID NO:11), and combinations thereof.

40. (Withdrawn) A cell culture substrate comprising a peptide composition including one or more pairs of peptides selected from the group consisting of (a) AFFFQ(SEQ ID NO:12)/EEEMY(SEQ ID NO:13) and (b) FIKLM (SEQ ID NO:14)/FFIPY (SEQ ID NO:15).

41. (Original) A cell culture substrate comprising a peptide selected from the group consisting of FKL VY(SEQ ID NO:16), KKKKK(SEQ ID NO:17), KKKKL(SEQ ID NO:18), FK K K Q(SEQ ID NO:19), FKFIG(SEQ ID NO:5), KKKSK(SEQ ID NO:20), KKKLK(SEQ ID NO:21), FK K K K(SEQ ID NO:22), LKKKK(SEQ ID NO:23), KKLKK (SEQ ID NO:24), KKKKT(SEQ ID NO:25), KKP KK(SEQ ID NO:26), KKPQY(SEQ ID NO:27), SKKKK(SEQ ID NO:28), KVKKK(SEQ ID NO:29), KNQTY(SEQ ID NO:30), FK K K V(SEQ ID NO:31), KP K K K(SEQ ID NO:32), FFKKK(SEQ ID NO:33), HKNQT(SEQ ID NO:34), FKL VG(SEQ ID NO:35), KKQPK(SEQ ID NO:36), EKKQT(SEQ ID NO:37), EK K K K(SEQ ID NO:38), KKIKQ (SEQ ID NO:39), KKKKS(SEQ ID NO:40), KKQKK(SEQ ID NO:41), KKLNY(SEQ ID NO:42), DGKKT(SEQ ID NO:43), KKPTT(SEQ ID NO:44), KFIFG(SEQ ID NO:45), FK K MY(SEQ ID NO:46), FFFKK(SEQ ID NO:47), KQKKI(SEQ ID NO:48), HIKKK(SEQ ID NO:49), DFFHK(SEQ ID NO:50), AKKKK(SEQ ID NO:51), AHIKK(SEQ ID NO:52),

AHKKK(SEQ ID NO:53), LKLVY(SEQ ID NO:54), PKQKK(SEQ ID NO:55), AKKKT(SEQ ID NO:56), DEETY(SEQ ID NO:57), HNPPY(SEQ ID NO:58), GGHMS(SEQ ID NO:59), AADEG(SEQ ID NO:60), GGGGS(SEQ ID NO:61), EEGLS(SEQ ID NO:62), HHPST(SEQ ID NO:63), FHHNT(SEQ ID NO:64), ADELN(SEQ ID NO:65), KKKK(SEQ ID NO:66), KKK(SEQ ID NO:67), KK(SEQ ID NO:68), OrnOrnOrn(SEQ ID NO:69), RRR(SEQ ID NO:70), and combinations thereof.

42. (Canceled)

43. (Canceled)

44. (Currently amended) A cell or tissue culture medium ~~including the~~ comprising a peptide of claim 1. selected from the group consisting of FKL VY(SEQ ID NO:16), KKKKK(SEQ ID NO:17), KKKKL(SEQ ID NO:18), FK K KQ(SEQ ID NO:19), FK FIG(SEQ ID NO:5), K K KSK(SEQ ID NO:20), K K K LK(SEQ ID NO:21), FK K K K(SEQ ID NO:22), L K K K K(SEQ ID NO:23), K K L K K (SEQ ID NO:24), K K K K T(SEQ ID NO:25), K K P K K(SEQ ID NO:26), K K P Q Y(SEQ ID NO:27), S K K K K(SEQ ID NO:28), K V K K K(SEQ ID NO:29), K N Q T Y(SEQ ID NO:30), F K K K V(SEQ ID NO:31), K P K K K(SEQ ID NO:32), F F K K K(SEQ ID NO:33), H K N Q T(SEQ ID NO:34), F K L V G(SEQ ID NO:35), K K Q P K(SEQ ID NO:36), E K K Q T(SEQ ID NO:37), E K K K K(SEQ ID NO:38), K K I K Q (SEQ ID NO:39), K K K K S(SEQ ID NO:40), K K Q K K(SEQ ID NO:41), K K L N Y(SEQ ID NO:42), D G K K T(SEQ ID NO:43), K K P T T(SEQ ID NO:44), K F I F G(SEQ ID NO:45), F K K M Y(SEQ ID NO:46), F F F K K(SEQ ID NO:47), K Q K K I(SEQ ID NO:48), H I K K K(SEQ ID NO:49), D F F H K(SEQ ID NO:50), A K K K K(SEQ ID NO:51), A H I K K(SEQ ID NO:52), A H K K K(SEQ ID NO:53), L K L V Y(SEQ ID NO:54), P K Q K K(SEQ ID NO:55), A K K K T(SEQ ID NO:56), D E E T Y(SEQ ID NO:57), H N P P Y(SEQ ID NO:58), G G H M S(SEQ ID NO:59), A A D E G(SEQ ID NO:60), G G G G S(SEQ ID NO:61), E E G L S(SEQ ID NO:62), H H P S T(SEQ ID NO:63), F H H N T(SEQ ID NO:64), A D E L N(SEQ ID

NO:65), KKKK(SEQ ID NO:66), KKK(SEQ ID NO:67), KK(SEQ ID NO:68), OmOmOm(SEQ ID NO:69), RRR(SEQ ID NO:70), and combinations thereof.

45. (Withdrawn) A cell or tissue culture medium including the peptide of claim 24.

46. (Withdrawn) A cell or tissue culture medium including the peptide composition of claim 27.

47. (Canceled)

48. (Currently amended) A method for enhancing cellular growth and/or secretion comprising the step of culturing cells or tissues in the presence of ~~the peptide of claim 1~~, a peptide selected from the group consisting of FKLVY(SEQ ID NO:16), KKKKK(SEQ ID NO:17), KKKKL(SEQ ID NO:18), FKKKQ(SEQ ID NO:19), FKFIG(SEQ ID NO:5), KKKSK(SEQ ID NO:20), KKCLK(SEQ ID NO:21), FKKKK(SEQ ID NO:22), LKKKK(SEQ ID NO:23), KKLKK (SEQ ID NO:24), KKKKT(SEQ ID NO:25), KKPKK(SEQ ID NO:26), KKPOY(SEQ ID NO:27), SKKKK(SEQ ID NO:28), KVKKK(SEQ ID NO:29), KNQTY(SEQ ID NO:30), FKKKV(SEQ ID NO:31), KPKKK(SEQ ID NO:32), FFKKK(SEQ ID NO:33), HKNQT(SEQ ID NO:34), FKLVG(SEQ ID NO:35), KKQPK(SEQ ID NO:36), EKKQT(SEQ ID NO:37), EKKKK(SEQ ID NO:38), KKIQ (SEQ ID NO:39), KKKKS(SEQ ID NO:40), KKQKK(SEQ ID NO:41), KKLNY(SEQ ID NO:42), DGKKT(SEQ ID NO:43), KKPTT(SEQ ID NO:44), KFIFG(SEQ ID NO:45), FKKMY(SEQ ID NO:46), FFFKK(SEQ ID NO:47), KQKKI(SEQ ID NO:48), HIKKK(SEQ ID NO:49), DFFHK(SEQ ID NO:50), AKKKK(SEQ ID NO:51), AHIKK(SEQ ID NO:52), AHKKK(SEQ ID NO:53), LKLVY(SEQ ID NO:54), PKQKK(SEQ ID NO:55), AKKKT(SEQ ID NO:56), DEETY(SEQ ID NO:57), HNPPY(SEQ ID NO:58), GGHMS(SEQ ID NO:59), AADEG(SEQ ID NO:60), GGGGS(SEQ ID NO:61), EEGLS(SEQ ID NO:62), HHPST(SEQ ID NO:63), FHHNT(SEQ ID NO:64), ADELN(SEQ ID

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NO:65), KKKK(SEQ ID NO:66), KKK(SEQ ID NO:67), KK(SEQ ID NO:68), OmOmOm(SEQ ID NO:69), RRR(SEQ ID NO:70), and combinations thereof.

49. (Currently amended) A ~~peptide which enhances cell~~ method for enhancing cell secretion in a cell culture system, the method comprising the step of culturing cells or tissues in the presence of a peptide, wherein all amino acids of said peptide possess positively charged side chains.

50. (Currently amended) The ~~peptide of claim 49 ranging~~ method of claim 49, wherein the peptide ranges from 2 amino acids to about 20 amino acids.

51. The ~~peptide~~ method of claim 49, wherein the peptide enhances cell secretion in said system at a concentration range from about 250 μ M to about 24mM.

52. (Currently amended) The ~~peptide~~ method of claim 49, wherein said peptide is a media constituent.